

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: METALUX

Report Number: P563385

Luminaire Tested: **VHB-9-W-UNV-L735-CD**

Issue Date: 6/3/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P364417)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VHB-9-W-UNV-L735-CD  
Description: 9000 LUMEN, VHB LED LUMINAIRE WITH, WIDE LENS AND 70CRI, 3500K CCT  
LEDS  
Light Source: -  
Ballast/Driver: -

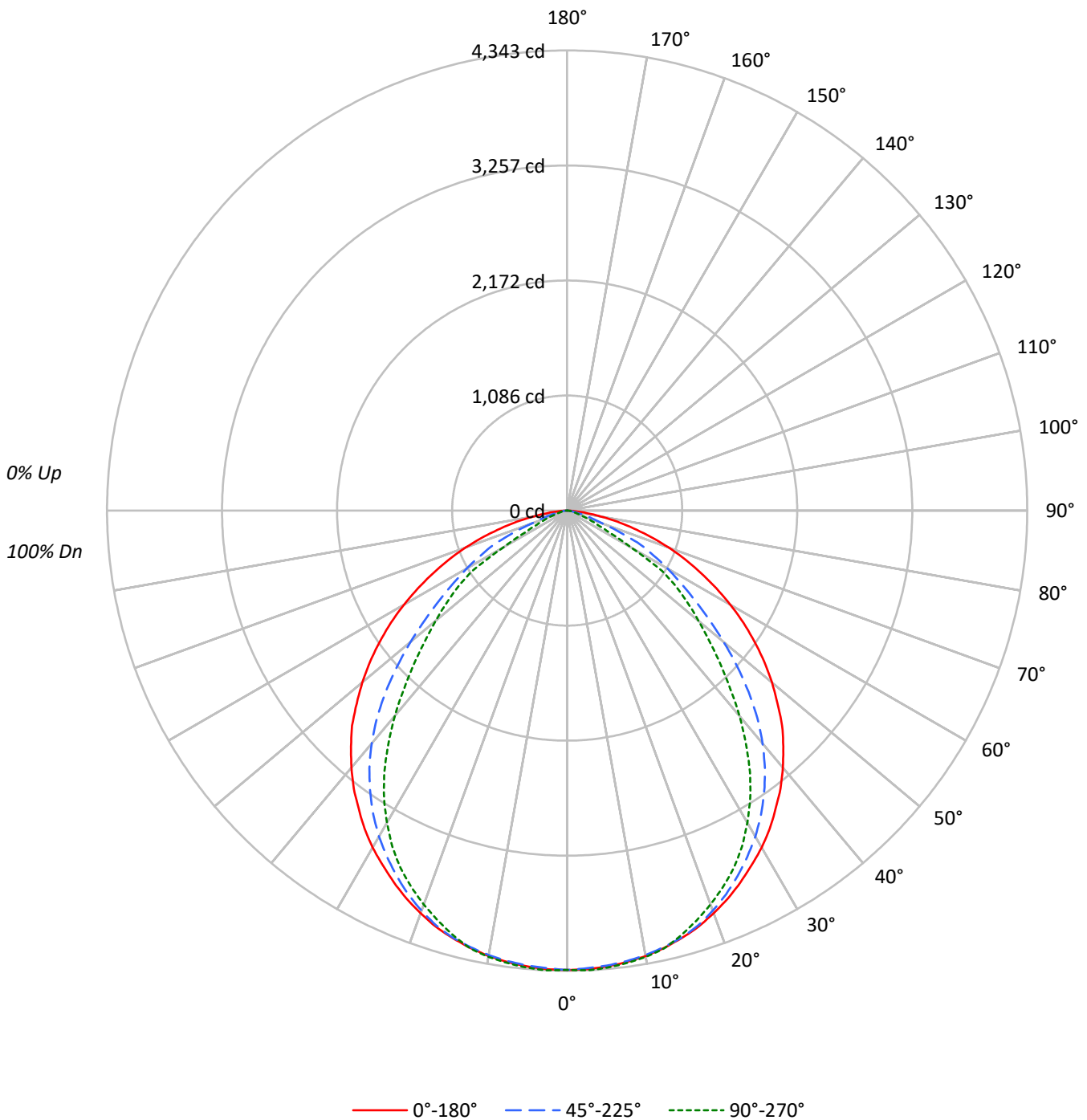
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9751.0 lumens  
Efficiency: N/A  
Efficacy: 174.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.17 / 1.28  
Luminous Opening: Rectangular (W 1.17' x L: 1.58' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	52	61	56	52	50
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	25263	25263	25263
5°	25266	25215	25330
10°	25257	25203	25306
15°	25197	25171	25041
20°	25076	24921	24531
25°	24890	24467	23930
30°	24709	23902	22880
35°	24414	23065	21394
40°	24092	21825	19249
45°	23655	19960	16819
50°	22873	17476	14692
55°	21939	14887	12825
60°	20726	12769	8188
65°	19204	10650	4341
70°	17334	6052	2813
75°	14562	3708	1749
80°	11067	1873	1534
85°	6726	1698	1384



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.4	4.2
10°-20°	1174.3	12.0
20°-30°	1750.4	18.0
30°-40°	2015.9	20.7
40°-50°	1876.1	19.2
50°-60°	1427.6	14.6
60°-70°	766.3	7.9
70°-80°	281.9	2.9
80°-90°	47.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3335.2	34.2
0°-40°	5351.1	54.9
0°-60°	8654.8	88.8
0°-90°	9751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9751.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4335	4335	4335	4335	4335	
5°	4319	4307	4311	4326	4330	411
15°	4177	4170	4172	4164	4151	1179
25°	3871	3868	3805	3751	3722	1784
35°	3432	3390	3242	3079	3007	2148
45°	2870	2732	2422	2134	2041	2206
55°	2160	1915	1465	1305	1262	1929
65°	1393	1023	772	382	315	1381
75°	647	424	165	85	78	693
85°	101	32	25	22	21	134
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	4332.2	4319.0	4323.4	4337.5	4343.2
5°	4319.4	4307.1	4310.6	4325.6	4330.4
7.5°	4298.4	4286.5	4289.2	4303.2	4308.0
10°	4268.5	4256.2	4259.3	4272.9	4276.8
12.5°	4228.1	4216.7	4219.3	4229.0	4233.4
15°	4176.7	4170.1	4172.4	4164.4	4150.8
17.5°	4119.2	4109.6	4106.9	4071.8	4057.3
20°	4043.7	4040.2	4018.7	3975.2	3955.9
22.5°	3964.2	3957.6	3920.3	3868.0	3844.8
25°	3871.1	3868.0	3805.3	3751.2	3721.8
27.5°	3771.0	3763.5	3682.7	3615.1	3575.1
30°	3672.2	3653.8	3552.3	3457.5	3400.4
32.5°	3560.2	3525.5	3404.3	3283.2	3217.3
35°	3432.0	3390.3	3242.3	3079.4	3007.4
37.5°	3307.8	3245.0	3066.7	2863.0	2770.7
40°	3167.2	3077.2	2869.1	2632.4	2530.5
42.5°	3019.2	2909.5	2658.8	2383.4	2278.9
45°	2870.4	2732.1	2422.1	2134.5	2040.9
47.5°	2693.4	2546.8	2176.2	1896.9	1816.6
50°	2523.1	2351.8	1927.7	1675.6	1620.7
52.5°	2344.8	2137.1	1686.2	1488.6	1435.4
55°	2159.5	1915.3	1465.3	1304.6	1262.4
57.5°	1973.3	1687.5	1269.5	1137.3	1061.8
60°	1778.4	1461.3	1095.6	924.3	702.6
62.5°	1586.5	1225.9	922.1	579.6	447.0
65°	1392.8	1023.1	772.4	382.5	314.8
67.5°	1208.0	826.8	551.1	277.1	235.8
70°	1017.4	676.2	355.2	198.5	165.1
72.5°	826.4	544.0	243.7	130.4	105.8
75°	646.8	423.7	164.7	85.2	77.7
77.5°	484.8	292.4	91.8	63.2	59.3
80°	329.8	175.2	55.8	48.3	45.7
82.5°	197.6	83.9	40.4	35.6	34.3
85°	100.6	32.5	25.4	21.9	20.7
87.5°	29.9	16.2	11.4	8.8	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)